

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
66 Days Or
2,114,000 Man-Hours
(Unofficial Estimate)
Without A Disabling
Injury
Through February 14
Phone 7755
For Daily Report
On Accident-Free Hours

Off-The-Job Mishaps Hurt Eight Times As Many Y-12ers In 1959 Than Accidents In Plant -- 1958 Toll Is Topped

Many Causes Reported For Varied Injuries

How many different ways can employees sustain injuries off-the-job—and why—is a perplexing problem to industry throughout the nation. The question is no less vital among Union Carbide Nuclear Company employees in the Y-12 Plant.

One Attacked By Bull

Let's take a look at the record

for 1959 alone. The disabling injuries suffered by Y-12ers last year totaled 89 in mishaps at their homes, on athletic fields, in automobiles, in boats—and one man even was attacked and injured by a bull in a pasture!

At the Y-12 Plant the number of disabling injuries in 1959 to employees at work amounted to only 11, less than one-eighth of the off-the-job total. In addition, there were only 754 days of time lost because of plant mishaps.

Why?

That is a question to which safety engineers and plant officials everywhere would like to find the answer.

Morover, the 1959 off-the-job accidents causing injuries to Y-12ers exceeded those of 1958 by a substantial margin. In 1958 only 69 disabling injuries away from the plant were recorded with the total number of days lost being 1,524. The 1959 number of days lost was 1,803.

89 Employees Lose 1,803 Days Of Work

Breaking down the number of off-the-job disabling injuries sustained by Y-12 Plant folks as to locale, the figures show that in 1959 there were 38 persons hurt in automobile accidents, 19 in home mishaps and 32 in recreation and other activities. The 1958 record had 40 transportation injuries, seven at home and 22 in recreation and other activities.

90 Days Lost By One

The most time lost by any Y-12er from off-the-job injuries last year was 90 days by a man badly burned in a boat explosion. Fractures sustained in one automobile accident cost one man 86 days and dislocations in another traffic mishap kept another away from his job for 84 days.

A lacerated hand slashed by a propeller of a motor boat from which one Y-12er was thrown caused the loss of 51 days of work.

Hands and toes injured by power lawn mowers also were included in the list of off-the-job accidents. Likewise was an injury suffered by a man falling from a folding chair on which he was standing to hang drapes. One man broke two ribs in a fall over a footstool at home. Lifting injuries were listed—one being in the moving of a dog house!

Several Hurt In Sports

Sports activities had their share of blame for off-the-job injuries—with mishaps being reported from softball, baseball, basketball and diving. A squirrel hunter lost 17 days after shooting himself in the toe.

That man attacked by a bull lost only four days from his injuries!

One bright spot in the Y-12 safety picture for 1959 was that there were no fatalities from off-the-job accidents. Neither was there a fatality in the plant.

How can these off-the-job accidents be reduced—or eliminated?

Statistics No Comfort

Statistics are dull reading at the best—and certainly not interesting to a person suffering from injuries—serious or slight—suffered in any accident. However, the comparison between the mishaps in and away from the plant should reveal some lesson.

Could it be that Y-12ers—and other industrial employees all over the nation—leave their safety lessons behind them when they reach home? Is it a let-down from the close attention paid to the job in the plant after leaving?

Perhaps it is a little bit of both.

Safety Sensitivity Needed

Safety sensitivity should be the same at home as in the plant. There are common sense rules and ways to do home jobs to avoid accidents—just as there are in the plant. Observance of those rules—and just being careful and thoughtful about each job around the house, about each trip in an automobile and in every other activity can bring about freedom from the aftermath of every injury—pain, loss of time, worry by family members and all the other disagreeable consequences of any accident.

How about trying that thought on for size? It should fit.

Engineer Groups To Hear Gore At Dinner Monday

National Engineering Week will be observed with a joint effort of members of engineering societies in Oak Ridge and Knoxville at a dinner set for Monday night, February 22, at the University of Tennessee Student Center in Knoxville. Dinner will be served at 6:45 o'clock and the guest speaker will be U. S. Sen. Albert Gore (D. Tenn.)

All Y-12 members of various engineering societies are urged to attend the dinner. Y-12ers wanting reservations may obtain them from Jack Cox, plant phone 7705; or M. I. Linden, plant phone 7716.



THE BULLETIN

A NEWSPAPER BY AND FOR Y-12 EMPLOYEES OF UNION CARBIDE NUCLEAR COMPANY
DIVISION OF UNION CARBIDE CORPORATION

VOL. 14 — NO. 7

OAK RIDGE, TENNESSEE

Wednesday, February 17, 1960



Long Week-End Holiday Coming For Y-12 Employees

The upcoming week end will provide Y-12ers a long week-end holiday for the observance of Washington's Birthday. The observance falls on Monday, February 22, and is the 228th anniversary of the Father of Our Country, who was born in Virginia, led the American Revolutionary armies to victory over the British to obtain freedom for the colonies and later became first president of the United States.

This regular Union Carbide Nuclear Company holiday will see no Y-12ers required to work except those required for the continuous operation and protection of the plant.

Work On UCNC Buildings At Sterling Forest Speeded

Concrete work has been started on the outer shell of the Union Carbide Nuclear Company reactor building in Sterling Forest, N. Y., near Tuxedo. Before work on the building could be started, a considerable amount of blasting was necessary so that a mountain on which the building is being erected can provide containment for two-thirds of the structure. Progress also is being made on the adjoining Radioactive Materials Laboratory. Most of the concrete walls are up on this building and work is proceeding on the interior. These two buildings make up the nuclear portion of the five buildings in Sterling Forest to be used by UCNC for nuclear and ore research.

AIEE, ASME Joint Meeting To Hear Talk By GE Man

A joint meeting of Oak Ridge Sections of the American Institute of Electrical Engineers and the American Society of Mechanical Engineers has been announced for tomorrow, Thursday, February 18. The Oak Ridge Elks Club is the site of the session with dinner served at 6:30 o'clock, followed by the business session at 7:45 o'clock.

Speaker of the night will be J. W. Suggs, of the General Electric Co., Schenectady, N. Y. His subject will be "Modern Turbines and Generators." Y-12 members of the two organizations desiring reservations for the dinner are asked to communicate with J. C. Cox, plant phone 7705.

Googin, Vavalides Granted Patents

Both Are Assigned
To U.S. Government



J. M. Googin S. P. Vavalides

Two patents, each pertaining to handling of uranium, have been granted to two Union Carbide Nuclear Company employees, both now with the Y-12 Plant. They are John M. Googin, of Development Operations; and Spears P. Vavalides, of Chemical. Googin has been a Y-12er for years, while Vavalides is a comparatively recent transfer from the Oak Ridge Gaseous Diffusion Plant.

Both of the patents have been assigned to the United States government with both Googin and Vavalides having received the "dollar letters" granted to inventors of the Company who have turned their work over to the government for the nominal fee of \$1.

Googin's invention was granted a patent September 29, 1959. It is titled "Preparation of High Density UO_2 " and related to the preparation of UO_2 particles and more particularly to a method for preparation of such particles for use in a neutron reactor. He applied for the patent back on April 14, 1953. The patent was based on work done at the Y-12 Plant.

The patent by Vavalides was applied for March 22, 1950, and finally was issued August 25, 1959. It is titled "Removal of Uranium from Organic Liquids." The invention relates to a method for recovering uranium and more particularly to the removal of extremely small quantities of uranium values from organic liquids. Vavalides' work was done while he was with the ORGDP.

UT Scientist Will Speak At Physics Seminar Meet

J. O. Thomson, of the University of Tennessee, will be speaker at the weekly Oak Ridge National Laboratory Physics Division seminar set for Friday afternoon of this week, February 19. The meeting will be at 3:15 p.m. in the auditorium of Bldg. 4500, ORNL. The speaker will discuss "Heat Flux and Mobility of Ions in Liquid He II." Y-12 technical and scientific personnel interested in the subject are invited to attend.



'Don't Blare Out' Information — Observe Security

"Don't Blare Out Everything You Know."

That's the warning issued to every Y-12er against disclosing classified information to anyone not entitled to receive it.

Classified information is not a topic for casual conversation. In fact "silence is golden" as far as this information is concerned. Access to classified information is a privilege restricted not only to persons having the proper security clearance—but also strictly to those who require such a access in connection with their official duties.

This "need to know" standard must be applied to all cases where classified information is to be revealed.

Oxygen Converter For Jet Plane Is Made By Linde

A new 10-liter liquid oxygen converter for the Air Force F-105 supersonic jet fighter now is being manufactured at the Speedway, Ind., factory of Linde Company, Division of Union Carbide Corporation. The latest developments in the field of cryogenics are incorporated in the design of this converter, which is guaranteed for one year against evaporation loss in excess of the limit set forth in the Air Force specifications.

Of double-wall construction, the converter has a stainless steel inner shell and an aluminum outer shell. The annular space contains a special insulation developed by Linde. The new insulation reduces space and weight requirements for oxygen supply in military aircraft while decreasing the oxygen evaporation loss to two and three-fourths pounds per day.

NEW FIRM FORMED

Union Carbide International Company has reported the formation of Union Carbide India Ltd., formerly known as National Carbon Company (India) Ltd. The new name reflects the trend toward consolidation under the corporate name. The Union Carbide affiliate operates flashlight and battery manufacturing facilities, also a zinc rolling mill. It is expected its new plants will substantially contribute to the future of the industrial growth of India.

Soviet-Bloc Travel Reports Required

Changes In Marriage
Status Must Be Filed

Any Y-12er contemplating travel in a Soviet-bloc country is required by security regulations to file a special report on these plans, the Security Department reminds any employee with such thoughts in mind.

Likewise, the Security Department points out that any Y-12 employee who has married since filling out a Personnel Security Questionnaire is required to submit such a report on the change in marital status.

Early Filing Required

The report on contemplated travel to Soviet-bloc nations is to be made on an Atomic Energy Commission Form 290 on "foreign travel." Six copies of this report are required to be submitted to the Security Department as far in advance of any such trip as possible.

The Soviet-bloc nations include the states of the Union of Soviet Socialist Republics and such countries as Albania, Bulgaria, China (excluding Manchuria and Formosa), Czechoslovakia, Estonia, Latvia, East Germany, Hungary, Lithuania, Manchuria (including the former Kwantung leased territory and the Liaoning Province), North Korea, Poland, Rumania and Communist-controlled Viet Nam and the Hanoi-Haiphong Enclave.

Report On Threats Urged

On any foreign journeys, Y-12 travelers are urged to report any incident or circumstances that may contain a threat to the personal safety of the traveler or the security of the United States. Such reports should be made immediately to a representative of the United States government.

In reporting on the change in marital status, three copies must be filled out on AEC Form 354 and sent to the Security Department.

The Security Department, Bldg. 9704-2, plant phone 7286 and 7125, has the necessary AEC forms on hand for any Y-12er to use in making either of the reports described and will give assistance in completing them.

Surplus Property Retail Sale Is Set For Saturday

Another public retail sale of surplus government property is scheduled for Saturday of this week, February 20, at the Union Carbide Nuclear Company warehouse on River Road, near Elza Gate. A large variety of articles will be offered for sale, from 8 a.m. to 3:30 p.m. Items include assortments of lumber, furniture, typewriters, other office equipment and other articles. Similar sales will be held March 5 and 19 and April 2 and 23.

The Bulletin

Published Weekly By And For
Y-12 Employees Of
UNION CARBIDE
NUCLEAR COMPANY
Division Of
UNION CARBIDE CORPORATION
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Oak Ridge, Tenn.
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'Survival Design' February 26 Topic On Audubon Tour

The fourth in the 1959-60 series of Audubon Screen Tours, to be presented at Jefferson Junior High School on Friday, February 26, at 7:30 p.m., will be "Designs For Survival," shown and narrated by William Anderson, of Homestead, Fla. This color motion picture will be a departure from the usual outdoor travelogue.

From years of patient photographic observation of natural wildlife, Anderson has produced a striking film that reveals the wisdom of nature's intricate balance in equipping animals to cope with their particular environments in order to survive. Designs for feeding, movement, protection and reproduction in nature are well illustrated on color film.

Anderson and his wife, Claire, have spent the last 10 years in the production of nature films. They have done all the work in producing 16 classroom films, in addition to furnishing sequences for three Walt Disney features and a number of television programs. All this started while Anderson was serving as a lieutenant colonel in the professional and scientific division of the Air Force.

Tickets may be bought in advance at Patterson Insurance Agency in Grove Center or they will be on sale at the box office on the night of the Screen Tour.

Y-12ers With 15, 10 Years Company Service

Congratulations to the Y-12 employees listed below who will complete 15 and 10 years of Company Service within the next few days.

15 YEARS

Elva J. Combs, Production Analysis, February 17.

James S. Tilley, Enriched Uranium Recovery, February 21.

Milton L. Rice, Product Processing, February 21.

10 YEARS

William C. Slagle, General Machine Shop, February 21.

New Linde Oxygen, Nitrogen Plant Placed In Service

William B. Nicholson, president of Linde Company, Division of Union Carbide Corporation, has announced that a new on-site oxygen and nitrogen producing plant to serve Mobay Chemical Company at New Martinsville, W. Va., went on stream. This unit will produce 25 tons per day of medium purity oxygen simultaneously with 25 tons per day of high-purity dry nitrogen. The oxygen will be used in various isocyanate processes.

The Mobay plant is one of Linde's network of on-site oxygen and nitrogen producing plants throughout the country, designed to supply the growing needs of the chemical, steel, and petroleum industries for large volumes of oxygen and nitrogen.

Be a courteous driver—dim your lights approaching another car from either front or rear.



Naw, the little guy in a hurry with the hatchet ain't Mack The Knife, Jr., he's G. Washington, about whom many tall tales are told in connection with the famous "cherry tree incident." His natal day is next Monday, February 22, (and the Colyum Conductor looked up this date so as not to be as confused as when he changed the calendar to put Valentine Day on February 18) and G. Washington established such a record as a general, president and surveyor that the anniversary of his birth is widely celebrated—including an annual holiday by all Carbide folks.

So here's a toast of thanks to G.W.—after which the CC will go about his business of mingling truth with fiction in getting out the Colyum. First item of business is discussion of the happenings in—

TECHNICAL

Groundhog Day, 1960, long will be remembered by J. L. Harris, Quality Control. For February 2 marked the arrival in the family of a new daughter. Born at Oak Ridge Hospital, little Lisa Gail weighed seven pounds, 10 ounces, and, of course, is the apple of the Harris family eye.

Special Projects folks are missing Bill Sims, recently transferred from that department to Industrial Engineering. Farewells were said last week to Helen Gordon, who left to finish the long march down the Road to Maternity—she is succeeded by Jeanne Cothron, a gal from Paducah, Kaintuck.

From Laboratory Operations go get well wishes to Rella Davis, ill over in the University Hospital in Knoxville. Likewise to Albert "Shorty" Rogers, another flu victim at his home over in Knoxville. Condolences are extended Phyllis Johnson, whose mother died recently in California.

Special Testing last week extended a warm welcome to newcomers Ruby Viator and Irene Ellison.

Wishes for a speedy recovery from pneumonia are extended to Dorothy Rutherford, wife of B. F. Rutherford, Radiation Safety. She was in Oak Ridge Hospital last week.

ENGINEERING

On last Thursday's dreary afternoon, the Colyum was faced with a complete lack of contact with Mechanical Engineering. Frank Fuis, the regular agent in that department, was flu-felled at his Norris home, and Lettie Ault, his pinch hitter, also was reported puny. So, great was the pleasure of the CC on bright Friday morning to get a phone call from Lettie—with a news report. Seems as how Frank still is on the ailing list, along with John Thomas and Russ Hensley—so get well wishes are in order. Nora Moss journeyed over to Nashville last Saturday night to watch her eldest son, Howie, do basketball battle against the Vanderbilt Commodores on behalf of the University of Tennessee Vols. The MEs believe M. E. Clark must have ice water in his veins to spend a vacation in Wilmington, Del., this time of year—which he is doing. R. L. Huddleston wants his friends, feminine particularly, to know he has moved from Bldg. 9215 to Bldg. 9766 down in the flatlands.

Here's one way to fill up the Colyum. Have any of you Y-12ers heard the definition of a playboy? No? Well here 'tis—

"A man who summers in the

Smokies, winters in Miami and springs at blondes."

SHIFT SUPERINTENDENTS AND UTILITIES

The envy of the Utilities Department and many other Y-12ers is J. H. Humphreys—he's spending three whole vacation weeks in Florida. J. D. Tolliver was a recent week-end visitor to Williamsburg, Ky., to see his father. R. B. Amos spent his long week end entertaining his son, home on leave from Uncle Sam's Navy. A. J. Edwards took his long break to go fishing. The W. R. McCollisters went sightseeing recently to Bald River Falls in the Tellico area. Get well wishes go to E. F. Sosby and C. A. Cox. G. R. Beasley is welcomed back after his recent illness. E. M. Baird is the new Proud Grandpop of the department and is receiving the usual congratulations. R. G. Hurst is sporting one of those new Slinky Sixty automobiles.

INDUSTRIAL RELATIONS

The Boys in Blue and Gray of the Fire and Guard Department warmly welcomed Guards S. E. Murphy, J. H. Russell and S. O. Venable back to work after a knockout bout with the flu. Meanwhile Guards R. L. Carson and J. E. Morgan are battling the bug. Just to switch the tempo, get well wishes are sent to Guard G. A. Atchley—he's got the mumps. Rapid recovery wishes also are extended Guard L. A. Litton, injured in a recent automobile accident. Likewise to the wife of Fireman L. H. Perry; she is recovering from surgery performed a few days ago at Baptist Hospital in Knoxville.

MECHANICAL OPERATIONS

Production Control spread its crimson carpet of welcome out recently for Spears Vavalides, transferred from the Chemical Department. Likewise for Fred Baker, transferred from Production Inspection. Also greeting Ed Cothron, who came down from Carbide in Paducah. In addition—welcoming R. C. Human and J. F. Burchfield, former employees returning to the plant. The department flu list last week included Virginia Newby, Jim Cole, Greeta Luallen, Ed Cothron, Gene Mattie, Ken Nuchols, R. H. Burns, G. E. Easley, R. S. Rapier and H. Rector—all of whom are on the rapid recovery wish book of the department. Get well wishes also go to E. A. Donahue, ailing in Oak Ridge Hospital. Ernest Kennedy's pretty daughter, Joyce, brought him a lot of pride the other day when she was elected Carnival Queen of Bearden High School in Knox County. Mike Shemanski is a happy guy now—final adoption papers for his two adopted sons were approved February 8. The gay blades of Production Control, Jim Anderson and Bob Harris, are reported making frequent forays to Kentucky, Alabama and various points in Tennessee—could it be that pastures are greener and the scenery more gorgeous at the end of those rainbows? Jack Thomson—the golfing and tennis player star of the gang—is enjoying a new screened-in porch and larger living room in his house. Jack, incidentally, is expecting a new degree in industrial engineering shortly from the University of Tennessee. Phyllis Smith's "baby" sister, Carole, was married recently, much to Phyllis' chagrin—she says.

Vacations in the TW Shops are divided into two categories—taking in automobile races at Daytona Beach and at home, just loafing. In the first bracket are L. D. Copeland and W. E. Sizemore, while C. F. Murrin and W. E. Sizemore are in the latter classification. The sick list—flu and other ailments—includes M. Jennings, C. E. Jennings, W. L. Gaston, P. A. Fritts, J. T. Forrester, J. D. Pattie and L.



COMMUNITY CHEST-RED CROSS LEADERS in Oak Ridge and Anderson County completed their fund raising campaign last autumn. They met recently to review results of the drive that exceeded the \$90,000 goal. Two Carbide men, including one Y-12er, are in the group. From left are Don Mance, drive treasurer; Joe Sandoz, treasurer for the Red Cross; James Wolfe, campaign chairman and recently elected president of the Community Chest; Douglas Carter, Oak Ridge Gaseous Diffusion Plant and treasurer for the Anderson County Community Chest; and James E. Campbell, of Y-12 and chairman of the Oak Ridge Chapter of the Red Cross.

K. Phillips—with get well wishes going to one and all.

Just keeping in style—the only item from Beta Four Heavy Machine Shop is that rapid recovery wishes go along to J. R. Mackay, sideswiped by the flu bug.

The Sunflower Shop is congratulating its latest Proud Pop, D. E. Perkins, who became the father of a son, Donald Elbert, Jr., on February 7, born at Oak Ridge Hospital, weighing seven pounds, 12 ounces. The sick list is a long one and rapid recovery wishes go to W. S. Fox, J. A. Clemons, M. H. Vineyard, E. R. Stover, T. L. Wheeler, J. C. Montgomery, Fred Cox, J. A. Bledsoe, D. Griffies, H. C. Day, J. F. Griffith, J. J. Winslett, L. E. Abrams, H. Y. Rollen, J. R. Johns, S. E. Leach, O. A. Ellis and J. E. French. While all those Sunflowers were out ill, the Shop warmly welcomed newcomers R. E. Jolley, L. L. Ellis, J. A. Kilby, R. B. Birdwhistell, D. R. Vandergriff, L. D. Williams, C. R. Roberts, L. D. Roberts, P. H. Dobbins and G. G. Galor.

An anonymous contributor slipped this into the mail to the Colyum last week—

"Blessed are they who run around in circles—for they shall be known as 'Big Wheels'."

MAINTENANCE

Mechanical Maintenance warmly welcomed C. P. Darnell back to work after an extended illness. The Proud Pop of the week in the department is R. C. Glandon, who gained his rank when a husky nine-pound boy joined the family on February 4. Sympathy is extended E. W. Woodward, whose grandmother died recently in Kentucky. R. P. Putman welcomed a son-in-law to the family recently—his daughter was married.

The Colyum understands there's a lot of aching bones and various ailments in the Finance and Materials and Chemical Operations Divisions—and hopes that one and all and sundry will be recovered sufficiently to resume their literary activities real soon—by so doing the Ol' CC won't have to work quite so hard.

Check strangers in your area and determine their authority to be these.



"I hurt it tacking up a safety poster."

Rides Wanted, Offered

Want to join car pool from West Haven section, Knox County, to West Portal, straight day. R. E. Stephens, plant phone 7-8569, home phone Knoxville 3-3784.

Ride wanted or will join car pool from Schaad Road, Knox County, to North Portal, straight day. Harlan Galbraith, plant phone 7631.

Ride or riders wanted from West Haven or Cumberland Estates to any portal, D Shift. G. F. Beck, plant phone 7960, home phone Knoxville 8-6687.

Ride wanted from 148 West Tennessee Ave., Oak Ridge, to West Portal, straight day. Marjorie Gilliland, plant phone 7-8691, home phone Oak Ridge 5-3153.

Two riders wanted for car pool from Lake City to any portal, straight day. Sylvia Smith, plant phone 7319, home phone Lake City 3464.

Riders wanted from Harriman to West or Bear Creek Portal, straight day. Raymond Curtis, plant phone 7994, home phone Harriman 2407.

Ride wanted or will join car pool from Burlington section of Knoxville to Central Portal, straight day. D. L. Craig, plant phone 7690, home phone Knoxville 2-8393.

Ride or riders wanted or will join car pool from Rockwood to any portal, H Shift. Van Vail, Jr., plant phone 7-8388, home phone Rockwood EL 4-1371.

Ride wanted from Broadway and Hiwassee Ave., North Knoxville, to North or Central Portal, straight day. Madeline E. Keck, plant phone 7187, home phone Knoxville 2-8241.

Ride wanted from West city limits of Clinton on State Road 61 to Central or North Portal, straight day. Mary Stinnett, plant phone 7382, home phone Clinton 448.

Ride wanted from 2410 Fairmont Blvd., North Knoxville, to West Portal, straight day. D. N. Sideris, plant phone 7-8529, home phone Knoxville 4-7964.

AEC Gives Heavy Water Plant To Chemical Corps

The Atomic Energy Commission has released its Dana heavy water plant, Newport, Ind., to the Department of the Army for use by the Chemical Corps. The plant has been maintained in a standby condition since June, 1957, following the Commission's determination that there was an adequate heavy water stockpile and foreseeable requirements could be supplied by the Commission's Savannah River heavy water plant.

The Dana Plant is located near Newport, on land owned by the Department of Defense. Construction of the plant was started in 1950 and it went into operation in May, 1952. Cost of the plant was approximately \$100,000,000.

Safety depends on teamwork. Look out for the other fellow.

Reactors In Tie For Hoop Top Spot

February 25 Contest May Decide Loop Title

The Reactors team of Y-12 in the Carbide Basketball League rose to a tie for first place in the circuit and kept their record unblemished last week by trouncing their fellow Y-12 team, the Atoms, by 33-30 in a smashing contest. The victory was the seventh without a loss for the Reactors and placed them looking eye to eye with the Oak Ridge Gaseous Diffusion Plant Lab Demons with an identical mark.

The Reactors and Demons clash on Thursday night, February 25, in a game that in all probability will decide the loop championship.

The ORGDP Hot Shots added a pair of wins to their mark last week, beating the Y-12 Ramblers by 42 to 25 and then turning on the ORGDP D Shift by 63 to 43. In other tilts the ORGDP Cee Reds beat the Y-12 Hawks by 50 to 39 and the Atoms of Y-12 gained a forfeit win from the Hawks.

Reactors Have Hands Full

The Reactors had their hands full with the Atoms. Only a third-period spurt that gave the winners a 15 to 6 edge saved the win as the losers outscored the Reactors in the other three periods. Lew Fitzgerald's 16 points paced the Reactors, with Cheek getting eight and Chandler six. Jim Grubb was high for the Atoms with 12 points, followed by Bill Grubb and Shelton at six each.

The Ramblers just couldn't get started against the Hot Shots, being on the short end of a 26 to 10 score at halftime. The Y-12ers held their own in the last half, but too late. Graham got 11 points and Crass and Hudson 10 each for the winners. Biddix had nine, Vandergriff seven and Bailey six for the Ramblers.

Graham, Crass and Hudson also led the Hot Shots to victory over D Shift, despite a torrid fourth period that saw each team scoring 20 points. The Hot Shots were far in front in each of the first three periods.

Reds Sizzle In Second

A sizzling second period in which they outscored the Hawks by 13 to 2 gave the Cee Reds their triumph. The Hawks had held a lead of 12-9 at the first rest session, but then the roof fell in. Mack Wright paced the Y-12ers with 12 points, Lanter bagged eight and Richards six. Davis with 18 and Cornett with 13 were big guns for the Reds.

Scores by periods and league standing follows:

Atoms	10	18	24	30
Reactors	8	14	29	33
Hot Shots	13	26	30	42
Ramblers	5	10	14	25
D Shift	6	17	23	43
Hot Shots	14	28	43	63
Cee Reds	9	22	38	50
Hawks	12	14	27	39

LEAGUE STANDING

Team	W	L
Reactors	7	0
Lab Demons	7	0
All Stars	5	1
Hot Shots	5	3
Beta Four	4	3
Cee Reds	3	4
D Shift	2	5
Atoms	2	6
Ramblers	1	6
Hawks	1	8



THE BETA FOUR TEAM IN THE CARBIDE BASKETBALL LEAGUE, ABOVE, has been playing some good ball recently. In the front row, from left, are Hubert Tripp, Jr., Jerry C. Houser, Jimmy Bryan, and Coach and Manager O. M. Kelly, Floyd Deal and Gene Buckley. Standing are Joe Sherrod, Capt. Kendall Brady, Fred Manning, John Lewis, Ralph Vaughn and J. R. Pugh.

Phantoms Blank Pin Plasters To Share Mixed League Lead; Goofers Tree Cats

The Phantoms replaced the Toppers as the team to share the lead in the Mixed League of Y-12 men and women bowlers with the Goofers last week. The Phantoms played the Pin Plasters for a four-point shutout win and displaced the Toppers, who lost three points to the Cool Cats. Meanwhile the Goofers held on to their share of the top rung of the ladder by treeing the Alley Cats for three. The Nip and Tucks returned to the win column and took all team scoring honors by nipping the Scrappers for three.

The Nip and Tucks posted a 715 scratch game, boosted to 887 with handicap, then went on to roll a 1920 scratch and 1436 handicap series. The Goofers were greatly helped in maintaining their first place tie by Elbert Scott's high marks of a sizzling 606 scratch series, increased to 690 with handicap after he registered a 260 handicap game. Roy Seivers, a teammate, had a 233 scratch game for tops of the night.

Nell Jago, Toppers, posted a 445 scratch series for the distaf members of the loop. However, Joyce Gillihan, Nip and Tucks, took most of the scoring tops with a 178 scratch and 231 handicap game and a 591 handicap series.

Team	W	L
Goofers	16	8
Phantoms	16	8
Toppers	14	10
Cool Cats	13	11
Pin Plasters	12	12
Nip and Tucks	11	13
Scrappers	8	16
Alley Cats	6	18

Bush League Lead Still Deadlocked; Beavers, Pins Win

The deadlock in the Bush League of Y-12 pin pounders was maintained February 8 when the Beavers and Nine Pins each won three points. The Beavers gnawed their victory from the Hot Rodders while the Nine Pins whacked the Inspectors. The up and coming Alley Gators rolled the Rollniks for a four-point whitewash triumph to gain a tie for second place with the Hi Balls, who dunked the Alley Cats for three. The Lucky Five also applied a coat of whitewash to the Balls O' Fire.

Jim Turner, Lucky Five, topped the scratch series scorers with 551 and Tony Caputo, Beavers, had a season's high of a 663 handicap mark. A. E. Smith, also of the Beavers, had a 226 scratch and 247 handicap game for tops of the night. The Alley Gators came through with a 2413 scratch series and the Nine Pins a 2928 handicap series for best of the session.

Team	W	L
Beavers	12	4
Nine Pins	12	4
Hi Balls	10	6
Alley Gators	10	6
Inspectors	8 1/2	7 1/2
Lucky Five	7 1/2	8 1/2
Balls O' Fire	7	9
Hot Rodders	5	11
Alley Cats	5	11
Rollniks	3	13

C League Leaders Pick On Tail End Teams For Wins

The Sunflowers and Engineers, the first and second place teams in the C League of Y-12 bowlers, picked on the 12 and 11th place outfits February 8 for wins that helped the victors extend their slim leads over the rest of the pack. The Sunflowers won a four-point whitewash victory over the Knot Heads while the Engineers had to be content with three from the Hookers. The third-place Par Busters could only break even at two points each with the IBMs. Even breaks also were posted by the Big Five-Chillers, Alley Cats-SPs and Murderer's Row-D Shift.

J. C. Bryan, of the SPs, had the top scratch series of 566. I. G. Spears, Engineers, led the individual game scorers with 246 scratch and 276 handicap. Wallace, D Shift, ripped the handicap series scorers with 656. In team scoring it was the Chillers with a 1006 scratch game, boosted to 1151 with handicap, in the lead. The Alley Cats rolled a 2576 scratch series and Murderer's Row a 2957 handicap series for highs.

Team	W	L
Sunflowers	21	7
Engineers	19 1/2	8 1/2
Par Busters	18	10
IBMs	15	13
Big Five	15	13
Alley Cats	14	14
Murderer's Row	13	15
Chillers	13	15
D Shift	12	16
SPs	11 1/2	16 1/2
Hookers	9	19
Knot Heads	7	21

A Shift Volleyball Team Beats Eagles

The Eagles of Y-12 and the A Shift team of Oak Ridge Gaseous Diffusion Plant offered the only court action last week in the Carbide Volleyball League. The A Shifters, first half of the season winners, took a three-point win by 15-0, 16-14, 15-7. Three other scheduled matches resulted in forfeits. The disbanded MIT team of ORGDP allowed their fellow plant outfit, the Spikers, to add three points to the win column. The Y-12 C Shift Cats failed to show for two games, benefitting the Oak Ridge National Laboratory Set Ups and the Y-12 Hunters to boost their number of points won by three.

Team	W	L
Hunters	6	0
Set Ups	6	0
A Shift	6	0
Process Engineers	2	1
Spikers	3	3
MIT	0	6
C Shift Cats	0	9

Next Tuesday, February 23, Deadline To Enter 1960 Y-12 Plant Bowling Meet

Annual Pin Party Scheduled For March 5, 6 At Ark Lanes; New Marks May Be Established

There's not much time left—for Y-12 bowlers to enter the annual Y-12 Plant Bowling Tournament for 1960. The deadline for filing for the big event is 4 o'clock next Tuesday afternoon, February 23, when all entries—accompanied by entrance fees—must be in the hands of the Recreation Department, Room 132-A, Bldg. 9704-2.

The tournament will be staged at the Ark Bowling Lanes, Oak Ridge, on Saturday and Sunday, March 5 and 6. Team and mixed doubles will be rolled on Saturday with doubles and singles run off on Sunday.

The entry blanks have been in the hands of secretaries of the four Y-12 bowling leagues for several days now. Complete tournament rules and regulations are printed

ALL-CARBIDE TOURNAMENT SLATED APRIL 2-3, 9-10

The annual All-Carbide Bowling Tournament in which the top maple maulers from Y-12, Oak Ridge National Laboratory and Oak Ridge Gaseous Diffusion Plant compete for gold and glory, will be held on the week ends of Saturday and Sunday, April 2-3 and 9-10. The alley activities to determine Carbide Oak Ridge champions will be held at the Ark Bowling Lanes.

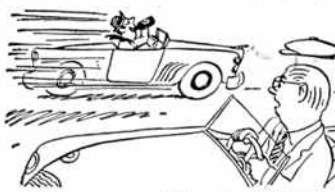
on the reverse side of every entry blank.

Taking into consideration the high interest in bowling throughout the Y-12 Plant this season and the above average quality of pin pounding shown in all of the circuits—it is expected that the 1960 tournament will not only draw a record list of contestants—but that some new records will be set.

Competition will be staged in men's five-man teams, doubles, singles, mixed doubles and all events. Women bowlers, of which there are several excellent ones in the Y-12 Plant, also will compete in singles, doubles and mixed doubles, as well as all events.

The all events high scorer in both the ranks of men and women will be crowned Y-12 champion for the season.

The Old Timer



"Any car will last a lifetime if you are a careless driver."

Wolves Take Lead In Classic League

Swingsters Swamped With Whitewash Loss

J. D. Brown had another torrid night on the hardwood last Thursday night to lead the Wolves to a four-point whitewash victory over the previous loop-leading Swingsters in Classic League alley activities. The howling Wolves thereby took over the top rung in the standings by a good margin. The Bumpers climbed up to a tie for third place with the Markers, the Bumpers stinging the Wasps for four and the Markers mauling the Eight Balls for three.

In other matches the Sportsmen skunked the Cubs for four and three-point wins were posted by the Tigers over the Smelters, Rippers over the Screwballs and Playboys over the Has Beens. The All Stars and Rebels broke even at two points each.

Brown blistered the alleys for a 652 scratch series, breaking his own seasonal mark of the previous week by 14 pins. For the second straight week he posted a 256 scratch game for the best loop mark of the season, but his handicap game of 269 fell short of the 274 previously set. Joe Smyrl, Playboys, had the best handicap series of the night and the season with 693, beating Brown's mark of 692. In team scoring it was the Wolves all the way with a 1089 handicap game and 3160 series.

League standing follows:

Team	W	L
Wolves	19	5
Swingsters	16 1/2	7 1/2
Markers	16	8
Bumpers	16	8
Tigers	14	10
Rippers	14	10
Cubs	12 1/2	11 1/2
Screwballs	12	12
Playboys	12	12
Sportsmen	10	14
Wasps	9	15
Has Beens	9	15
All Stars	9	15
Rebels	9	15
Smelters	8	16
Eight Balls	6	18

HOUSEHOLD FAIR SET

The next International Household Fair to be held in Stuttgart, Germany, has been set for 1962. This huge exhibition displays the most modern household equipment and furniture.



SOME WELL-KNOWN Y-12ERS ARE ON THE SPORTSMEN TEAM, above, in the Classic League of bowlers. Standing from left are Capt. Herb Oliver, Ed Sise, Jr., Ed Sise, Jr., and W. B. Motley. Seated is J. C. Bryan. The Sportsmen shut out the Cubs for four points last week.

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Martin Firm To Build Nuclear Power Plant

AEC Lets Contract For Unit In Wyoming

The Atomic Energy Commission has signed a contract with the Martin Company, Baltimore, Md., to design, develop, construct, install and test operate a factory assembled, modular nuclear power plant. The proposal of the Martin Company to do the work was selected as a basis for contract negotiations from among nine proposals received in response to an invitation issued by the Commission.

The plant, to be built for the Air Force and installed at the Sundance Air Force Station in Sundance, Wyo., is one of a family of plants being developed for the Armed Forces under a joint program of the Commission and the Army Corps of Engineers. The Commission is providing funds for the nuclear portion of the plant and the Air Force is providing funds for the related generating equipment and other facilities at the site. The estimated cost of the contract is \$5,387,450.

The design of the plant, will provide for factory-assembled modules, or units, which can be air-transported to a remote site and rapidly assembled. Design objectives include maximum operating reliability and safety, requirement for a minimum number of operating and maintenance personnel, minimum amount of on-site construction and capability of disassembly and relocation after operation.

The plant will have a pressurized water reactor, cooled and moderated by light water and fueled with highly enriched uranium. It will produce 1,000 kilowatts of electricity to power military electronic equipment and 2,000 kilowatts of heat for offices, barracks and other buildings.

Next Skeet Shoot Set For February 28

Another session of skeet shooting by Y-12ers interested in the clay pigeon sport is scheduled for 1 o'clock on Sunday afternoon, February 28 at the Oak Ridge Sportsmen's Association range. The association grounds are on the Turnpike, west of the city limits.

To enable the association to provide necessary facilities and equipment for the shoot, it is necessary that Y-12ers wanting to compete to notify the Y-12 Recreation Office, Room 132-A, Bldg. 9704-2, plant phones 7109, 7100, not later than 9 a.m. on the Wednesday preceding the shoot. This is to ascertain the number of competitors so that ammunition may be obtained by the association for the shooters. The fee for firing is \$3.50 for a round of 25 shots. It also pays fees for the trap attendants.

If the present series of skeet shoots on every other Sunday indicate sufficient interest in the sport, a regular league or ladder type of competition may be arranged later.

Falls kill 56 persons daily. Watch your step!



NO SUH—THIS AIN'T NO sweet 'tater, nor a turnip. It's a king-size radish grown and being held by A. B. Galyon, Sunflower Shop, in his Sevier County garden. The whopper weighed four pounds, 12 ounces, was 15 inches long and 16 inches in circumference. The Y-12er says this giant radish was one of from two to three dozen raised in his garden, all of which tipped the scales at from two to five pounds.

Y-12 Rifle Team Beats ORGDP Crew

The Y-12 rifle team in the Oak Ridge Sportsmen's Association Winter League blasted out two more points on the win side last week by taking both scratch and handicap decisions from an undermanned Oak Ridge Gaseous Diffusion Plant outfit. ORGDP only had two men to fire against the Y-12ers. The Y-12 gunmen fired a 1395 scratch and 1454.907 handicap score with ORGDP posting marks of 415 and 576.147 for its two-man team.

In individual scoring for Y-12 Dave Dewalt had 282, Jack Huff 280, Otey Cottrell 279, Carl Brewster 279 and Ed Brady 275. In handicap firing it was Harvey Cop-pock 294.331, Phil Vogelgesang 291.866, Cottrell 289.655, Brewster 289.655 and Huff 289.400.

Team	W	L
Y-12	23	3
ORNL	21	5
ORGDP	8	18
Independents	0	26

UCC Will Share Use Of New IBM Computer

200,000 Calculations Per Minute Possible

A new development in the operation of large-scale electronic computing systems has been revealed in the joint announcement by Union Carbide Corporation and C-E-I-R, Inc., that the two companies will share in the use of a high-speed IBM 7090 Computer System.

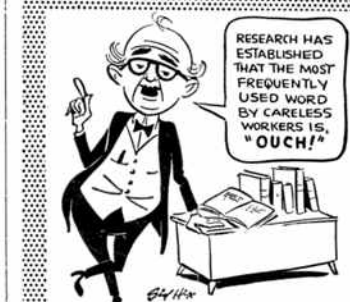
Put In New UCC Building

The transistorized data processing system, capable of 200,000 calculations per minute, will be installed this summer on the 36th floor of the new 52-story Union Carbide Building, currently being completed at 270 Park Ave., New York City. Union Carbide and C-E-I-R, a research and computer services firm, have signed a two-year agreement to divide equally the computing time on the machine.

Union Carbide will use the computer system to solve complex problems in research, development, and engineering. Further, the computer will facilitate the handling of business information within the Corporation.

Space Is Leased

The company has leased one and a half floors in the Union Carbide Building, containing 28,000 square feet of office space, for the professional staff of mathematicians, statisticians, economists, programmers and specialists in computer applications. C-E-I-R plans to build up its New York Research Center rapidly to a strength of some 200 staff members after it takes occupancy.



From National Safety News
Published by
The National Safety Council



ANOTHER FINE LOCAL EMERGENCY SQUAD in the Y-12 Plant Area is this group from Bldg. 9734. Known as the "First Line of Defense" in case of any emergency in their building, squad members from left are J. J. Mundzak, G. W. Charles, P. M. Griffin, W. F. Peed and Local Emergency Director P. A. Staats. Squad member M. R. Skidmore was absent when picture was made.

UCC Makes Important Contributions To World Of Medical Techniques Through Modern Drugs

Nuclear Company's Radioisotopes Have Saved Many Lives; Stainless Steel Instruments Safer

When any Y-12ers or members of their family are ill, nothing is more important than good medical care, and nothing is more reassuring than the knowledge that their doctor—and the treatment he prescribes—is reliable.

Union Carbide Corporation through its various divisions has made important contributions to the reliability and effectiveness of modern medical techniques. Union Carbide researchers have improved the manufacture of vitamins and drugs, discovered new diagnostic techniques and developed many materials for safer surgery.

Number Of Solvents Produced

Union Carbide Chemicals Company produces a number of solvents for the manufacture of medicines, anesthetics, and drugs. Acetone helps to isolate chlorophyll; ethers and oxides are solvents and raw materials for pharmaceuticals and anesthetics; propylene glycol is a solvent for dentrifices, sulfa drugs and Vitamin D; methyl isobutyl ketone purifies penicillin and other antibiotics. Nitrogen compounds (aliphatic amines) are effective as germicides, while Carbowax polyethylene glycols form water-soluble bases for ointments. Isopropanol is a germicide and rubbing compound (rubbing alcohol) and is used in liniments and antiseptic solutions.

Oxygen Therapy Widespread

Oxygen produced by Linde Company is prescribed by physicians for patients with a variety of illnesses. Oxygen therapy has become so widespread that many hospitals have the life-sustaining gas piped into rooms and wards like water.

Among the more dramatic stories of modern medicine is the development of radioisotopes as everyday tools for diagnosis and treatment. Union Carbide Nuclear Company can claim a big share of the credit for the many lives saved through proper use of its radioisotopes. That Company supplies about 80 per cent of the isotopes used by the medical profession.

In diagnosis, radioisotopes can locate brain tumors, detect restricted blood circulation, indicate disorders of the thyroid gland, determine cardiac output, reveal what happens to an injected drug, or show how the body uses its basic building blocks, the amino acids.

Cancer Treated By Isotopes

Different forms of isotopes are used to treat various types of cancer. Radiation reaches the diseased area in one of three ways; by direct application of the isotope to

the surface of the body, by introducing of the isotope directly into the affected area (by injection or drinking of an "atomic cocktail"), or by an external beam of gamma rays (usually from the radioisotope Cobalt 60).

Surgical instruments are more dependable and easier to sterilize thanks to stainless steel—made with ferrochrome from Union Carbide Metals Company. (The sterilizers are made of stainless steel, too.) Floor coverings made from Union Carbide Plastics Company, vinyl resins, combined with a conductive underlay, dissipate static electricity in operating rooms, eliminating one potential nonmedical danger to the patient.

Another Big Benefit

Here's an interesting thought to remember the next time an illness puts you in bed; hospitalization and sickness and accident benefits aren't the only medical benefits given by Union Carbide. Products and techniques for fighting disease are another big Union Carbide benefit—for employees and every one else, too.

UNCLE SAM WAS REAL

"Uncle Sam" was a real person. In the War of 1812 Samuel Wilson, of Troy, N.Y., who supplied meat for the United States Army, stamped his barrels of pork and beef with the letters "U.S." He told an inquiring employee the letters stood for "Uncle Sam."

**THERE ARE NO
BUTTS ABOUT IT!**



SAFETY COMES FIRST!